Space Weather Products Familiarization

OL-A, 18th Weather Squadron Updated 30 Jan 03

Space Weather Info

In addition to terrestrial weather, space weather plays a key role in the warfighters' ability to plan and conduct operations. Unlike terrestrial weather requirements, the operational needs of the warfighter (as they pertain to space weather) are not well documented, and may not be as well understood. To that end, the Air Force Weather Agency has taken many steps to provide products and training to better understand space weather and its potential effects on operations. Everything from GPS readings to HF communications and SATCOM may be effected during high solar activity.

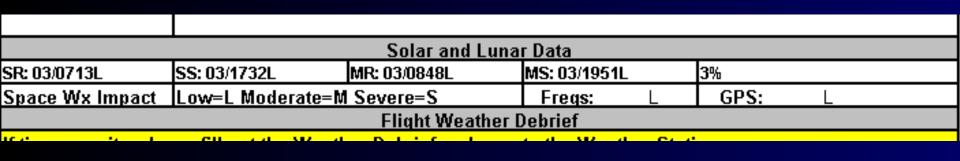
This will be a quick overview of the products OL-A, 18th WS, will provide on a routine basis. This overview will also include URL links to more in depth training material and available products currently in

use to support the warfighters. Specialized space weather support can be provided on request.

Space Weather is now provided on the new DI Blocks 15 and 16.

DADT II FUDOLITE A MICCION DATA																
PART II - ENROUTE & MISSION DATA																
14. FLT LEVEL/WINDS/TEMP SEE ATTACHED							15. 8	15. SPACE WEATHER					16. SOLAR/ LUNAR	LOCATION		
									NO IMPAC	T MARGI	NAL	SEVERE	BMNT Z			
							FREC	2					SR Z	ШR	z	
							GPS						ss z	шs	z	
							RAD						EENT Z	ILLUM	n	
17. CLOUDS AT FLT LEVEL 18. OBS								CURATIONS AT FLT LEVEL RESTRICTING VISIBILITY								
	YES NO IN ANDOUT YES					YES		NO	TYPE							

Space Weather is also provided on the Mission Forecast (MEF) in the Solar and Lunar Data by



Space Weather Info

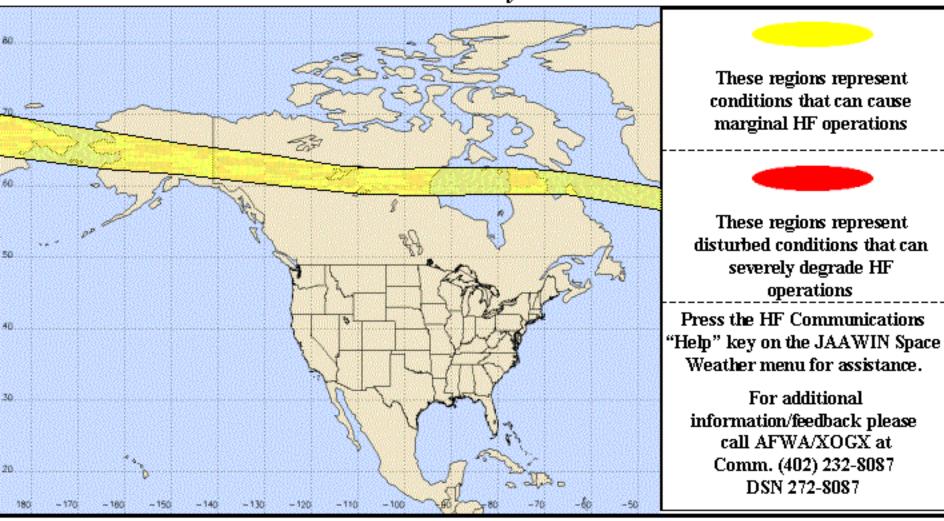
At this time we currently provide space weather informatic effects SATCOM (GPS, etc.) and HF Communications (free data used for these new blocks comes from products provides products may be obtained from AFWA's web site, or the MEF link on our Aircrew Page and selecting Daily Spalmpact Graphics.

The following 3 slides will show you examples of the product. For detailed information on these products and add Weather training please download and read the Space Weather, which describes these products in detail, located a

http://weathers.belvoir.army.mil/aircrew/Primer.doc

Ionospheric Conditions Impacting High Frequency (HF) Communications and Other HF Operations

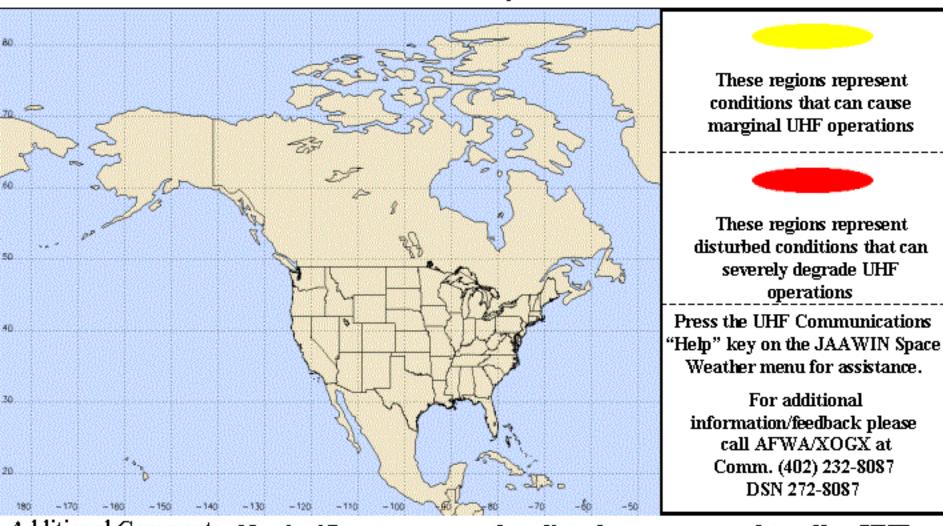
Forecast Valid: 03/1200Z - 03/1800Z February 03



Additional Comments:

Ionospheric Conditions Impacting UHF SATCOM Operations

Forecast Valid: 03/1200Z - 03/1800Z February 03

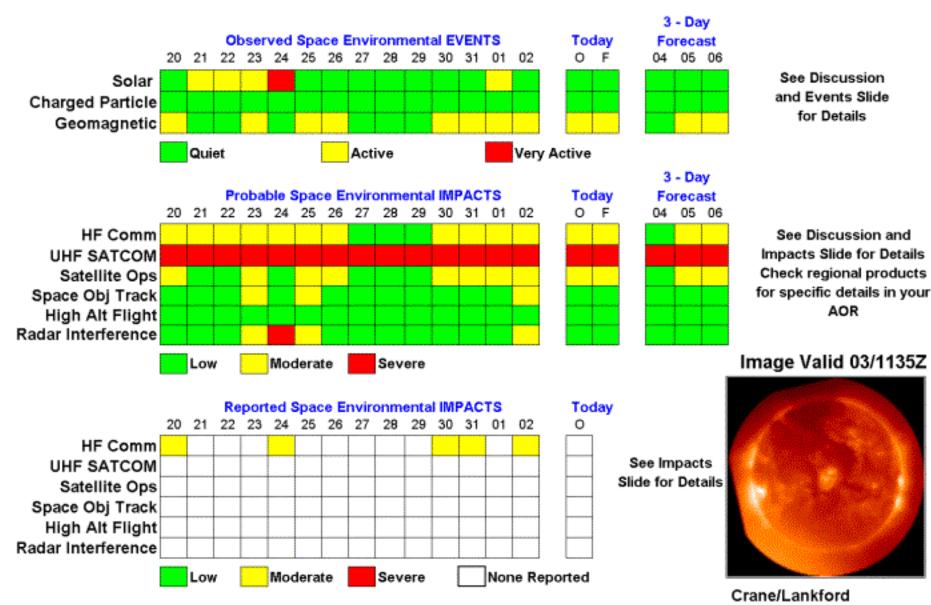


Additional Comments: No significant space weather disturbances expected to affect UHF or satellite communications.

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Space Environment Global Situational Awareness

Valid: 03/1200Z Feb 03



Prepared by AFWA/XOGX DSN 272-8087 COMM (402) 232-8087

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Issued 03/1200Z

Space Weather Info

Additional Space Weather Links

Space Weather Training and Requirements Module

(used for additional training and to help you determine if you have space weather requirements. This is where it all starts) https://midway.peterson.af.mil/weather/module.html

Air Force Weather Agency Training Division

(This site covers all Air Force Weather training, but includes a good section on space weather.)

https://wwwmil.offutt.af.mil/afwadnt/Training_Products/Space %20Weather/space weather.htm

Joint Air Force & Army Weather Information Network

(Main AFWA Space Weather page. Provides products, familiarization/training material, and links to other pertinent space weather sites.

https://www.afwin.afwa.af.mil/space.html

What can you do to help us?

